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70-23
(May 1929)

ROGERS	
EMMERT	
JOFFE	
NEILSON	
SMITH	
WILLIAMS	
SHOREY	
A. HARRIS	
LANGNE	
SKINNER	
SCHWEITZER	
BAUER	
BARROWS	
LORD	
ROBINSON	

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Yellowstone NATIONAL PARK

FILE NO. 207-02.3

MONTHLY REPORT

JANUARY

1941

YELLOWSTONE
NATIONAL PARK
LIBRARY
4645

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ARNO B. CAMMERER,
Director.

U. S. GOVERNMENT PRINTING OFFICE 6—7410

917.879

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
YELLOWSTONE PARK, WYOMING

February 6, 1941

MEMORANDUM for the Director:

Following is the report of activities for Yellowstone National Park for the month of January, 1941:

000 - General

010 - January was noted for its extremely mild weather, although there were a few light storms. All park roads, however, were closed during the month, with the exception of the road from Gardiner to Cooke, Montana.

Slaughter operations were begun at the Buffalo Ranch on January 20. Park Rangers were assisted in this work by research technicians and other specialized personnel.

Good skiing conditions were found in the park during January and considerable interest was taken in this winter sport. So much interest was taken in this sport by employees and residents in nearby communities that a ski instructor was engaged to give lessons on Saturday afternoons to all interested persons.

The wide variation in our weather was graphically illustrated by the fact that on Swan Lake Flats near Golden Gate skiers were enjoying excellent skiing conditions while approximately ten miles away golf was played on the Antelope Golf Course, near Gardiner, Montana.

In accordance with the provisions of the Buck Act, the two per cent Wyoming State Sales Tax was imposed in the park beginning January 1. It will be necessary for all park operators to collect this tax in the future.

020 - General Weather Conditions (see attached report)

100 - Administrative

110 - Superintendent's Special Activities

Superintendent Rogers was on annual leave in Denver, Colorado, until it was necessary for him to leave for Washington, D. C., to attend the National Park Service Superintendents' Conference. He had not returned to the park at the end of January.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
Yellowstone Park, Wyoming

Acting Superintendent Bennert left the park on January 29 and made an inspection trip to Custer Battlefield National Cemetery on his way to Billings, Montana, to attend a meeting of the Lower Missouri River Drainage Basin Committee. He returned to the park on January 31, 1941.

120 - Park Inspections

E. S. Luce, Superintendent, Custer Battlefield National Cemetery, in January 8; out 12th.

Daniel B. Beard, Regional Wildlife Technician, in January 17 to assist in buffalo reduction program; out 30th.

Estes Suter, Park Ranger, Wind Cave National Park, in January 17 to assist in buffalo reduction program; out 30th.

Harry Dunham, Supervising Inspector, Region II, in January 18; out January 21.

Dr. P. D. McKenney, of the Pullman Wildlife Disease Research Station, Fish and Wildlife Service, in January 21 to assist in buffalo reduction program; out 30th.

Dr. Quortrup, of the Bear River Wildlife Disease Research Station, Fish and Wildlife Service, in January 21 to assist in buffalo reduction program; out 31st.

Sanford Hill, Resident Landscape Architect, returned to park from annual leave January 21.

150 - Plans, Maps and Surveys

Engineering field work was confined to the small number of CCC construction projects active in the Mammoth Area. Office and drafting room work was continued on preparation of working drawings for the operators' developments at Lake and Fishing Bridge, with estimates and Program Construction Sheets for same. Data for the revision of utilities to be shown on the Master Plan sheets were also assembled.

160 - General Publicity

Several press releases were sent out during the month regarding the photographic possibilities of the Winter Yellowstone, stressing winter sports and the abundance of wild game to be seen. Considerable publicity was sent out by Montana organizations in Gardiner concerning Montana Day in Yellowstone, which is to be held on February 16.

200 - Maintenance, New Construction and Improvement

210 - Maintenance

General patrol maintenance was carried on in the headquarters area

and over the 30 mile road section between the North Entrance and Cooke. Due to extremely light snow fall only four trips of the snowplow were necessary over that section.

230 - Special Improvement Activities

There were two CCC Camps in Yellowstone during the month of January, Camp NP-1, Mammoth, and NP-7, Glenn Creek. The average company strengths and average number of enrollees turned over to the technical agency were as follows: NP-1, Mammoth, Average company strength 112; technical use 75; NP-7, Glenn Creek, Average company strength 116; technical use 73.

The main jobs for Camps NP-1 and NP-7 were as follows:

Razing Undesirable Stretures and Obliterations
Preparation of Materials
Minor Road
Elk Corral
Cottage

One job, No. 472, Elk Corral, at the Game Preservation Ranch, was completed during the month.

Due to the low company strengths and the sickness in the two camps very little progress was made on any of the CCC jobs.

The quarantine for mumps that was placed on both camps December 10 was lifted on January 8. There was a considerable amount of sickness in both camps for most of the month. Camp NP-1 averaged ten men a day on the sick list and Camp NP-7 averaged twenty per day.

300 - Activities of Other Agencies in the Park

Mr. N. H. Moorman and Mr. Huntley Child, of the Yellowstone Park Company, were in the park January 20 to discuss plans for the installation of a ski tow.

400 - Interpretation

410 - Lecture and Guide Service

No lectures, guide service, or interpretative contacts were made during the month of January except the development of a nature study program for the 7th and 8th grades in the school at Mammoth. Two classes were held during the month.

430 - Research and Observation

Blue Spring, part of the Mammoth Hot Springs, is now putting out a lot of water which flows over toward the southeast and covers a part of the front of the southern end of Jupiter Terrace.

431 - Botany

The 1940 range study report, completion of which was delayed due to necessary revision and lack of clerical personnel, was being mimeographed at the close of the month and will be ready for distribution early in February.

432 - Zoology

Some work was done during the month in studying bighorn and antelope bands, with particular observation for number of young and health of animals.

500 - Use of Park Facilities by the Public

510 - Increase or Decrease in Travel

Deficient snowfall over the northern area made conditions for skiing unfavorable but good weather and an excellent wildlife show attracted good numbers of winter motorists to the park who are taking advantage of the opportunities afforded by the 60 miles of open road from Gardiner to Cooke, Montana, to see the park in winter.

January, 1941
Travel by Gates

ENTRANCE	First Entry Cars	First Entry Pass.	Re-entry Cars	Re-entry Pass.	TOTALS Vehicles	TOTALS Pass.
North	82	194	318	975	400	1,169
West (Closed)	-	-	-	-	-	-
South (Closed)	-	-	-	-	-	-
Northeast	-	-	88	217	88	217
East (Closed)	-	-	-	-	-	-
TOTALS	82	194	406	1,192	488	1,386

600 - Protection

610 - Ranger Service

Intensive ski patrols over practically every section of the park were the principal ranger activities for January. The annual waterfowl census, detailed snow depth measurements, and extensive wildlife observations were made in connection with these patrols. Regular boundary patrols were also maintained along the northern boundary adjacent to the territory open to elk hunting in Montana. Buffalo reduction operations, attempts to trap live elk for live shipments and work in connection with the winter sports program constituted the balance of the outdoor work.

As a part of the safety program, a written and oral examination has

been prepared for drivers of government-owned trucks. This examination will include traffic laws, accident procedure, safety practices, and first aid. This type of examination has been used for several years to test GSA drivers and has demonstrated its value in reducing accidents and infractions of traffic regulations.

630 - Wildlife Protection and Fish Cultural Activities

Buffalo Reduction: Hay was placed on meadows near the Buffalo Ranch on January 6 and during the next few days feeding was moved nearer to the corrals and finally inside the corrals to entice animals to be selected for reduction purposes. By January 17 a total of 541 animals, including 124 bulls (ages from 1 year 8 months upwards), 200 cows (ages 1 year 8 months upwards), and 134 calves (born in spring of 1940), had been corralled and the work of sorting in the corrals was accomplished on January 17. All animals were lured into the corrals this year by use of hay although drivers devoted one day to drifting a herd of buffalo from the lower Lamar River section to the vicinity of the Ranch.

A total of 267 animals were held in the corrals for reduction purposes. Reduction work began on January 20 and at the close of the month 110 animals had been slaughtered and 4 shipped alive to the Washington Park Zoo at Portland, Oregon, this shipment being made by truck on January 20. The herd will be reduced this year by approximately 200 animals, including live shipments and slaughter. It is anticipated that live shipments will total about 25 animals.

Scientific studies of slaughtered animals were made by Dr. E. P. Quortrup and Dr. F. D. McKenney, of the Fish and Wildlife Service, and by Dr. Hadleigh Marsh of the Montana Veterinary Research Laboratory. Regional Wildlife Technician Daniel B. Board and Wildlife Ranger J. Estes Suter, of Wind Cave National Park, were present to make observations of the reduction operations.

Buffalo Counts: During the month a check of buffalo in the Fountain Flat, Tayton Valley and Lake Pelican valley sections was made by rangers. Totals seen in each of these areas respectively were: 26, 9, and 117. A total of 7 buffalo were seen in the Upper Lamar River country. Buffalo in the Hellroaring, Slough Creek, Specimen Ridge, and other miscellaneous areas were observed but no actual count was made. Buffalo in the Lamar Valley outside the corrals are not being fed and light snow conditions permit easy natural foraging.

Elk: Due to mild weather and light snow, elk are widely scattered over the northern area and little drifting has occurred. Very few have migrated beyond the park boundaries and hunters' kills have averaged only about 7 or 8 per week. On January 27, a total of 135 had been taken by hunters, as compared with 141 about the same time last year. Intensive efforts have been made to trap live elk to fill requests, without success.

Fish Planting: The annual Fish Planting Report was completed during the latter part of the month and distributed.

Waterfowl: A waterfowl census was made of the entire park during the period January 15 to 20. Waterfowl actually seen totaled 1,[illegible], as compared with 1,901 in 1940. Waterfowl included 61 trumpeter swans actually seen, with an estimate of 91.

900 - Miscellaneous

The annual meeting of the National Federation of Federal Employees, Local No. 165, was held in the Mammoth Canteen and the following officers elected for the coming year: David Gordon, President; Hugh Peyton, Vice-President; Leroy E. Van Cott, Secretary-Treasurer; Lester G. Abbie, Guardian; Board of Directors, John C. Lewis, Clyde F. Elliott, Hugh Ebert, Joe D. Kurtz, W. Leon Evans.

A baby daughter weighing 5 pounds was born to Principal Purchasing Clerk and Mrs. Ladd S. Shorey at the Park Hospital, Livingston, Montana, on January 22, 1941.

The annual meeting of the Yellowstone Federal Credit Union was held on January 17. A 5 per cent dividend was voted on savings and the following officers elected: Board of Directors, R. M. Robinson, David Gordon, and Richard J. Smith. Keith Neilson and Albert E. Elliott were the two members carried over from last year on the Board of Directors. Supervisory Committee, John Lewis, Chairman, Rudolf L. Grim and Glenn Williams; Credit Committee, Roger H. Miller, Chairman, Thomas H. Thompson, and Curtis K. Skinner.

Seasonal Ranger-Naturalist George Marler visited the park from January 14 to 18th to secure illustrative material for a lecture tour he is giving under the sponsorship of Mrs. C. H. Edge, Chairman of the Emergency Conservation Committee, New York City. His lecture, which is concerned primarily with the preservation of the trumpeter swan, will take him through Northern Utah and parts of Idaho.

CCC Foreman Otis F. Malverson was married to Miss Katherine Tyrrell, of Cheyenne, Wyoming, at Cheyenne, Wyoming, on December 31, 1941.

J. W. Emmert
Acting Superintendent

No. 1030—Met'l.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

MONTHLY METEOROLOGICAL SUMMARY

TION YELLOWSTONE PARK, WYO. MONTH JANUARY, 1941

TEMPERATURE, °F.				RELATIVE HUMIDITY (Percentage) 11:30a			PRECIPITATION		WIND			WEATHER		date
Maximum	Minimum	Mean	Normal mean	A. M.*	Local noon	P. M.*	Total (inches)	Snowfall (inches), p. m. to p. m. (unmelted)	Prevailing direction	Highest velocity	Direction	Percentage of possible sunshine	Character of day (a)	River stage (feet)
22	.9.	16	18	83	62	72	T	T	SW	13	SW	88	pt.cldy	1
22	-5	8	18	79	62	65	0	0	SW	13	W	100	clear	2
26	1	14	18	78	60	68	0	0	SW	10	SW	100	clear	3
24	1	12	18	71	62	76	0	0	S	14	S	10	cloudy	4
25	5	15	18	82	68	72	T	T	S	12	S	39	pt.cldy	5
26	20	23	18	74	69	74	.02	0.1	SW	24	SW	45	cloudy	6
34	20	27	18	79	78	75	.03	0.6	S	19	SW	18	cloudy	7
38	19	28	18	90	70	77	0	0	W	14	SW	73	pt.cldy	8
45	20	32	17	83	68	57	0	0	S	21	SW	92	pt.cldy	9
42	19	30	17	85	67	64	0	0	S	14	S	100	clear	10
40	15	28	17	79	66	69	0	0	S	13	S	87	clear	11
37	9	23	17	80	63	61	0	0	S	11	W	100	clear	12
35	9	22	17	78	63	67	0	0	S	12	S	84	pt.cldy	13
33	26	30	17	81	69	67	.05	0.8	S	16	S	0	cloudy	14
35	16	26	17	83	85	63	T	T	S	20	SW	34	pt.cldy	15
31	11	21	17	88	66	58	0	0	W	13	SW	40	pt.cldy	16
25	9	17	17	82	74	71	.01	0.1	S	17	SW	20	cloudy	17
33	23	28	17	79	71	77	T	T	S	24	SW	34	cloudy	18
40	31	36	17	70	66	64	0	0	SW	19	SW	38	cloudy	19
37	26	32	17	87	83	81	T	T	S	15	E	0	cloudy	20
34	22	28	17	92	86	77	.02	0.3	S	15	SW	40	cloudy	21
25	13	19	17	87	85	98	.04	0.5	N	7	N	0	cloudy	22
29	15	22	18	89	76	72	.01	0.2	S	18	S	28	cloudy	23
36	24	30	18	88	72	66	.05	0.7	SW	18	SW	37	cloudy	24
32	25	28	18	72	73	83	.04	0.2	S	26	SW	12	cloudy	25
40	15	28	18	82	80	73	.01	0.5	N	20	N	62	pt.cldy	26
36	7	22	18	81	66	57	0	0	S	12	S	82	clear	27
43	14	28	18	76	68	59	0	0	S	12	SW	100	clear	28
42	15	28	18	84	53	65	0	0	W	7	W	99	clear	29
42	11	26	18	71	48	43	0	0	W	12	S	100	clear	30
41	9	25	19	71	54	61	0	0	S	11	S	82	pt.cldy	31
33.8	14.6	24.2	~~~	81	70	69	0.28	4.0	S	26	SW	57	--	
25.9	9.4	17.6	~~~	78	68	73	0.77	16.1	S	~~~	~~~	39		

5:50 a. m. and p. m., 105 th meridian time. T indicates a trace of precipitation. [a]Sunrise to sunset. [b]Total. [c]Monthly.

SUMMARY

BAROMETRIC PRESSURE

ly mean 30.26

t 30.78, date 27

29.64, date 14

TEMPERATURE

t 43, date 9, 28

-5, date 2

es this month since 1904; highest 47, lowest -34

e daily departure +6.6°

e daily departure since January 1 1941 +6.6°

egree days 1265

PRECIPITATION

t amount in 24 hours 0.98, date 23-24

ure from normal this month -0.49

ulated departure since Jan. 1, 1941 0.69

ll, greatest 24-hour amount 0.8, date 23-24;

v on ground on 15th 3.0, and at end of month 3.2

WIND

Prevailing direction S, average hourly velocity 7.2

Highest wind velocity this month since 1904

35 miles from SW, on 2, in 1933

WEATHER

Number of days clear 9, partly cloudy 9, cloudy 13, with measurable precipitation (0.01 inch, or more) 10

MISCELLANEOUS PHENOMENA—DATES OF

Hail -

Halos, solar 13; halos, lunar -

Fog, light -; fog, dense -

Frost, light -, heavy -, killing† -

Sleet -

Thunderstorms -

Duststorms -

†Frosts not recorded in autumn after first "killing", except in Florida and along the immediate coast of the Gulf of Mexico.

MEAN TEMPERATURE AND TOTAL PRECIPITATION THIS MONTH IN—

		83		95		07	14.8	19	22.2	31	22.8	0.11
		84		96		08	20.3	20	22.7	32	13.7	0.83
		85		97		09	21.2	21	20.6	33	19.2	1.19
		86		98		10	15.8	22	12.5	34	26.2	0.61
		87		99		11	20.8	23	20.8	35	21.7	1.00
		88		00		12	20.2	24	16.2	36	17.0	1.51
		89		01		13	13.5	25	20.6	37	2.2	0.83
		90		02		14	24.6	26	20.0	38	20.5	1.41
		91		03		15	18.6	27	19.2	39	21.4	1.21
		92		04	18.6	16	6.7	28	22.2	40	15.8	0.97
		93		05	19.9	17	11.4	29	10.7	41	24.2	0.28
		94		06	22.5	18	16.2	30	4.8 0.88	42		

Charles L. Howard
75-2-1-41

Weather Bureau.

(10-6-37—20M) 554

10-157
(Dec. 1933)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

TRAVEL REPORT

Yellowstone National Park for the month of January, 1941

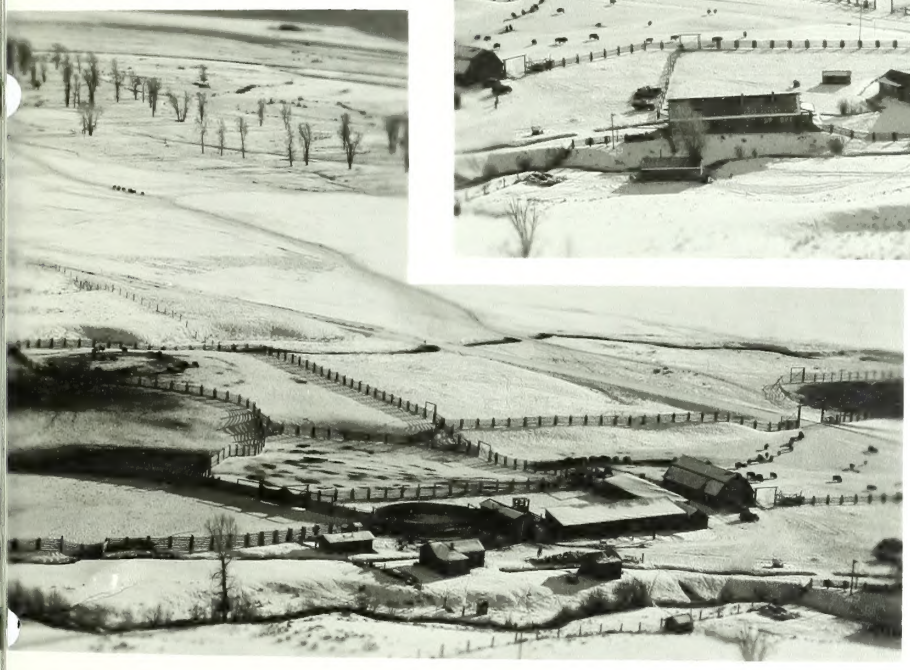
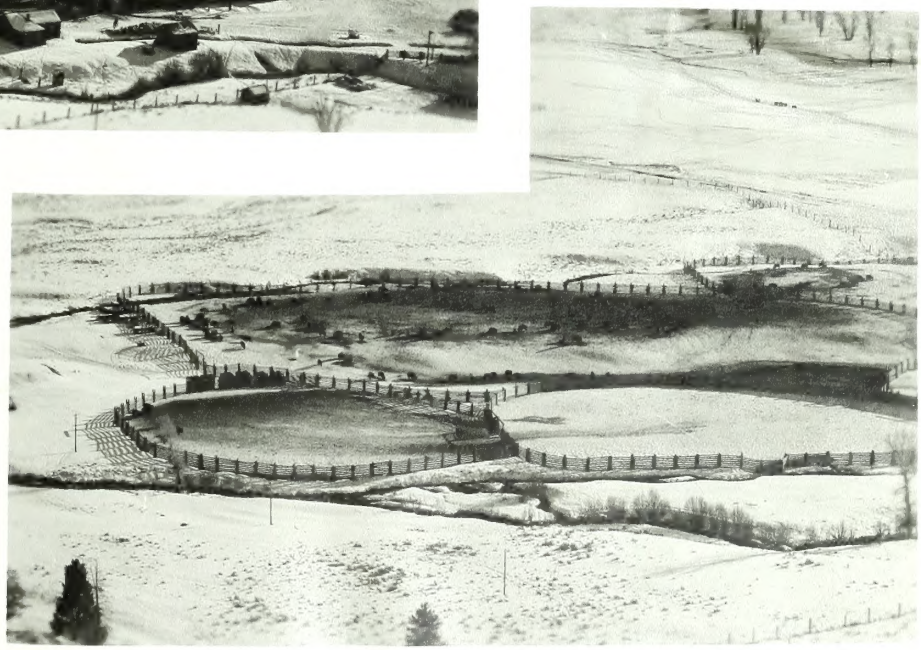
	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
PRIVATE TRANSPORTATION:						
Cars first entry, ...	32	2,773	144	3,531	- 758	- 22.0%
rs reentry, ...	115	2,210	290	3,495	-1,285	- 36.7%
Motorcycles, ...						
Total motor vehicles, ...	160	5,003	724	7,074	-2,071	- 29.2%
Persons entering via motor vehicles, ...	1,169	13,999	2,212	20,007	-6,148	- 30.5%
Persons entering via other private transportation, ...						
Total persons entering via private transportation, . . .	1,169	13,999	2,212	20,007	-6,148	- 30.5%
THER TRANSPORTATION:						
Persons entering via stages, .						
Persons entering via trains, .						
Persons entering otherwise, . .						
Total other transportation, .						
RAND TOTAL ALL VISITORS, . . .	1,169	13,999	2,212	20,007	-6,148	- 30.7%

	This Year	Last Year	Increase	
			Number	Percent
utomobiles in public camps during month, ...				
ampers in public camps during month, ...				

DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

TRAVEL REPORT

National Park for the month of .....

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number	Increase for Travel Year Percent
PRIVATE TRANSPORTATION:						
Cars first entry, ...						
Cars reentry,						
Motorcycles						
Total motor vehicles, . . .						
Persons entering via motor vehicles, ...						
Persons entering via other private transportation, ...						
Total persons entering via private transportation						
OTHER TRANSPORTATION:						
Persons entering via stages, .						
Persons entering via trains, .						
Persons entering otherwise, . .						
Total other transportation, .						
GRAND TOTAL ALL VISITORS,						

	This Year	Last Year	Increase
Automobiles in public camps during month, . . .			
Campers in public camps during month, ...